22.06.20

WALT understand circles

## Notes and Guidance

Children will illustrate and name parts of circles, using the words radius, diameter, centre and circumference confidently.

They will also explore the relationship between the radius and the diameter and recognise the diameter is twice the length of the radius.

## Mathematical Talk

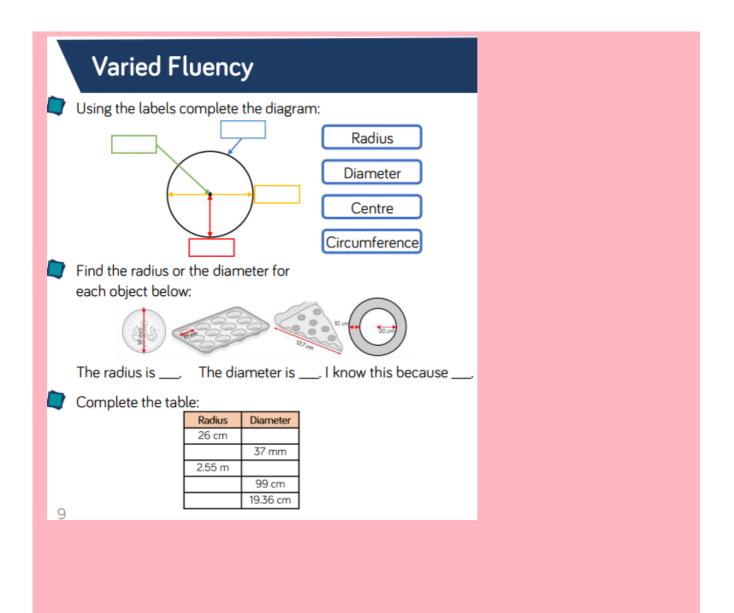
Why is the centre important?

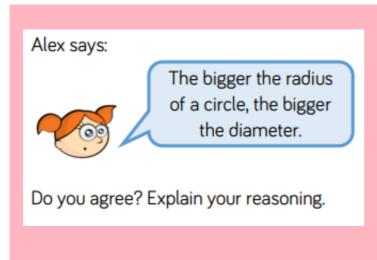
What is the relationship between the diameter and the radius? If you know one of these, how can you calculate the other?

Can you use the vocabulary of a circle to describe and compare objects in the classroom?

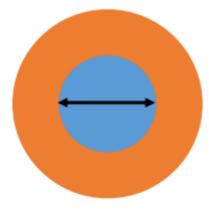
What are the parts of a circle called?

Watch - https://www.youtube.com/watch? v=5Ni53wpVO2I





Here are 2 circles. Circle A is blue; Circle B is orange. The diameter of Circle A is  $\frac{3}{4}$  the diameter of Circle B.



If the diameter of Circle B is 12 cm, what is the diameter of Circle A?

If the diameter of Circle A is 12 cm, what is the radius of Circle B?

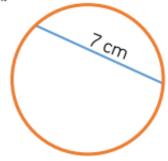
If the diameter of Circle B is 6 cm, what is the diameter of Circle A?

If the diameter of Circle A is 6 cm, what is the radius of Circle B?

## Spot the mistake!

Tommy has measured and labelled the diameter of the circle below.

He thinks that the radius of this circle will be 3.5 cm.



Is Tommy right? Explain why.